

What is claimed is:

1. A clutch handler assembly, comprising:

a lift arm having one end pivotally connected to a support and the other end pivotally connected to a head assembly,

a piston-cylinder assembly connected to between said support and said lift arm,

a shaft having an axis connected to a pivotal hinge plate wherein said hinge plate is pivotally connected to said head assembly, and

a linkage pivotally connected to said head assembly and to said support about at least three pivot axes,

wherein said piston-cylinder assembly moves said lift arm and said linkage from a lowered position to a raised position.

2. The clutch handler assembly of claim 1, wherein said shaft is substantially vertical with respect to its axis and said support when said lift arm is in the lowered position.

3. The clutch handler assembly of claim 1, wherein said shaft is substantially horizontal with respect to its axis and said support when said lift arm is in the raised position.

4. The clutch handler assembly of claim 1, further comprising a stop bar mounted to said support in proximity to said linkage.
5. The clutch assembly of claim 4, wherein said linkage comprises a pair of at least four movable segments mounted on parallel sides of said lift arm.
6. The clutch handler assembly of claim 5, wherein said shaft is splined.
7. The clutch handler assembly of claim 1, wherein said piston-cylinder assembly includes a hydraulic pump.
8. The clutch handler assembly of claim 5, wherein said pair of at least four movable segments includes a stop link segment which abuts said stop bar when the linkage is in the raised position and is spaced from said stop bar when the linkage is in the lowered position.
9. The clutch handler assembly of claim 8, wherein said pair of at least four movable segments includes a movable drag link segment connected between a first pivot axis and a second pivot axis.

10. The clutch handler assembly of claim 9, wherein said pair of at least four movable segments includes a tilting link segment connected between said second pivot axis and a third pivot axis connected to said head assembly.
11. The clutch handler assembly of claim 10, wherein said hinge plate has an adjusting screw mounted thereon for vertical movement of the hinge plate while in the raised position.
12. A method of clutch installation and removal, comprising the steps of:  
loading a clutch onto a shaft connected to a head assembly and a lift arm supported by a lift arm,  
energizing a piston-cylinder assembly for lifting motion of said shaft and said head assembly, and  
moving said clutch from a substantially horizontal position to a substantially vertical position utilizing only said piston-cylinder assembly.
13. The method of claim 12, wherein said piston-cylinder assembly includes a hydraulic pump.
14. The method of claim 13, wherein said moving step further includes pivotally rotating a linkage about at least three axes connecting a support base to said head assembly.

15. The method of claim 14, wherein said shaft is splined.
16. The method of claim 14, wherein said linkage includes a pair of at least four movable segments mounted on parallel sides of said lift arm.
17. A clutch handler assembly, comprising:  
means for loading a clutch onto a head assembly supported by a lift arm,  
means for lifting said head assembly without any manual assistance,  
means for moving said clutch handler assembly from a substantially horizontal position to a substantially vertical position.
18. The clutch handler assembly of claim 17, wherein said means for loading is a splined shaft connected to said head assembly.
19. The clutch handler assembly of claim 18, wherein said means for lifting said head assembly a piston-cylinder assembly.
20. The clutch handler assembly of claim 19, wherein said means for moving said clutch from a substantially horizontal position to a substantially vertical position is a movable linkage.

21. The clutch assembly of claim 20, wherein said linkage comprises a pair of at least four movable segments mounted on parallel sides of said lift arm.
22. The clutch handler assembly of claim 19, wherein said piston-cylinder assembly includes a hydraulic pump.
23. The clutch handler assembly of claim 21, wherein said pair of at least four movable segments includes a stop link segment which abuts said stop bar when the linkage is in the raised position and is spaced from said stop bar when the linkage is in the substantially horizontal position.
24. The clutch handler assembly of claim 23, wherein said pair of at least four movable segments includes a movable drag link segment connected between a first pivot axis and a second pivot axis.
25. The clutch handler assembly of claim 24, wherein said pair of at least four movable segments includes a tilting link segment connected between said second pivot axis and a third pivot axis connected to said head assembly.
26. The clutch handler assembly of claim 17, wherein said head assembly has an adjusting screw mounted thereon for vertical movement to said substantially vertical position.